



# PCC and the transition to Linked Data - implementation during LD4P3

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Michele Casalini  
michele@casalini.it

<https://wiki.svde.org>

# PCC data pool progress update

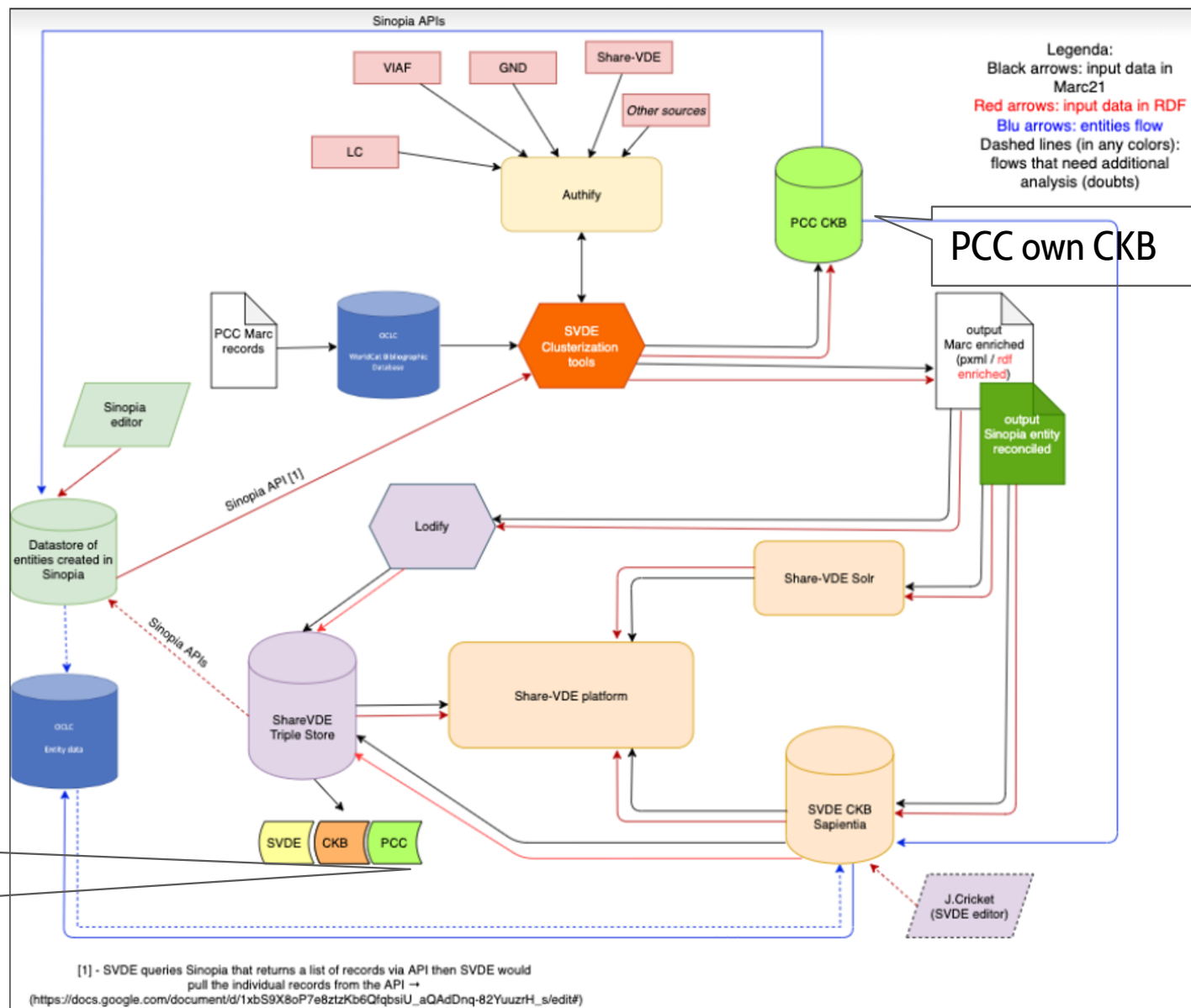
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- **Initial load** from OCLC to SVDE by 31st December 2020 → approx. 4.5 million WorldCat MARC bibliographic records created by PCC libraries (042 ##\$apcc)
- **SVDE has delivered PCC records converted in BIBFRAME** along with the original MARC records enriched with URIs
- converted records delivered to OCLC through ad hoc pipeline; also available here [PCC](#) along with MARC records enriched
- **regular updates** are ongoing, on monthly basis, for the duration of **LD4P3** to follow, PCC entities will be **available in the CKB**
- **PCC data** on SVDE portal and/or on PCC dedicated skin in preparation

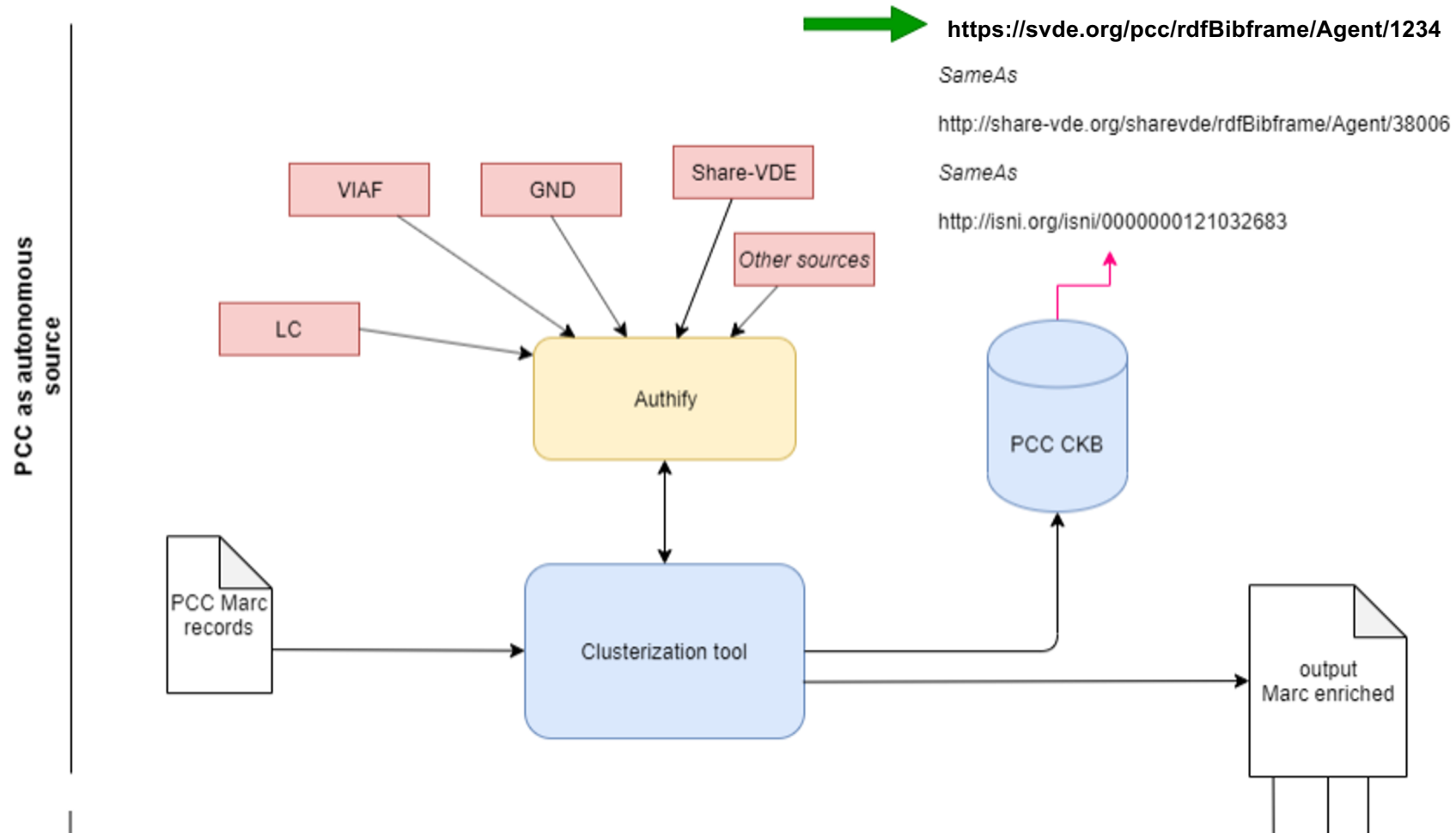
# PCC data pool in Share-VDE

Conversion, enrichment, reconciliation and housing of PCC data into the Share initiative as **autonomous tenant with a separated enriched CKB and local PCC URIs**

PCC autonomous tenant



# Inclusion of PCC data into Share-VDE as tenant: first step



# Workflow PCC - SVDE

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1. The PCC can be considered as a new tenant to be included in the Share Family;
2. the PCC MARC data feed the clusterization tool Authify;
3. enrichment of the PCC MARC data through Authify;
  - URI enrichment from various data sources: LC, GND, VIAF, OCLC, Wikidata, Share-VDE;
  - SVDE is an external data source serving URI enrichment for PCC;
4. result:
  - “ad hoc” PCC Cluster Knowledge Base including SVDE, LC, GND, VIAF, OCLC, Wikidata URIs (and URIs from other sources);
  - the PCC MARC data are data enriched;

# Workflow PCC - SVDE

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5. the PCC MARC data enriched feeds
  - the Cluster Knowledge Base;
  - SVDE platform (through SOLR);
  - Lodify conversion tool (conversion from MARC to linked data);
6. PCC data has a specific URI to identify the entities of PCC graph, e.g.  
**<https://svde.org/pcc/rdfBibframe/Agent/1234>**  
*SameAs*  
<http://share-vde.org/sharevde/rdfBibframe/Agent/38006>  
*SameAs*  
<http://isni.org/isni/00000000121032683>
7. PCC data is enriched with Share-VDE URIs (and other sources);
8. Preconditions are set for PCC's data publication on the SVDE entity based discovery interface.

# Benefits of having PCC data in SVDE

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## Transition to linked open data:

PCC data converted in RDF (both new data and old records)  
original MARC records enriched with URIs

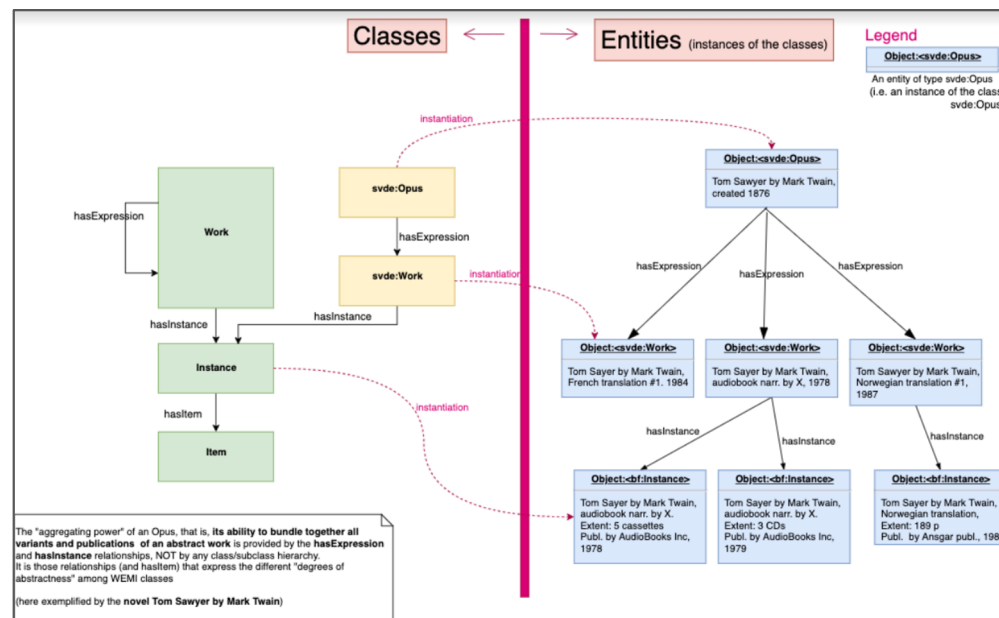
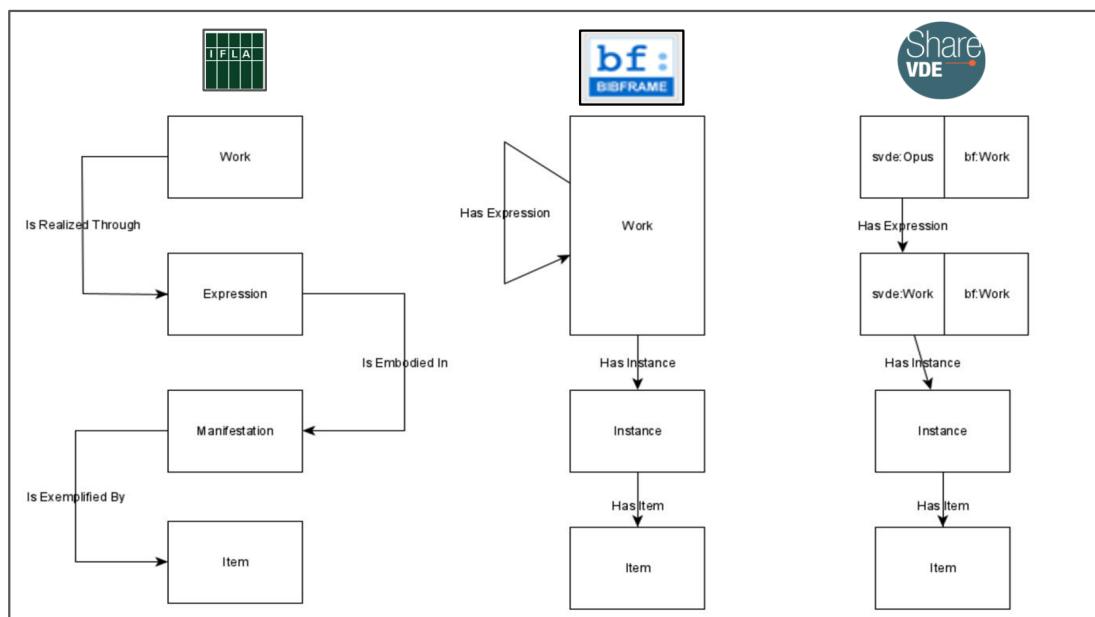
## Persistent identification and authoritativeness:

enrichment of PCC data with IDs from authoritative sources (SVDE, ISNI, VIAF etc.)  
ad hoc namespace for PCC URIs → this makes the PCC itself an authoritative source  
enhanced outreach of the PCC and prominent role in the international community

## Exchange of information:

easier integration of PCC data in external environments through the PCC URIs  
PCC data are treated according to the SVDE entity model that enables interoperability

# Facilitate interoperability between entity models



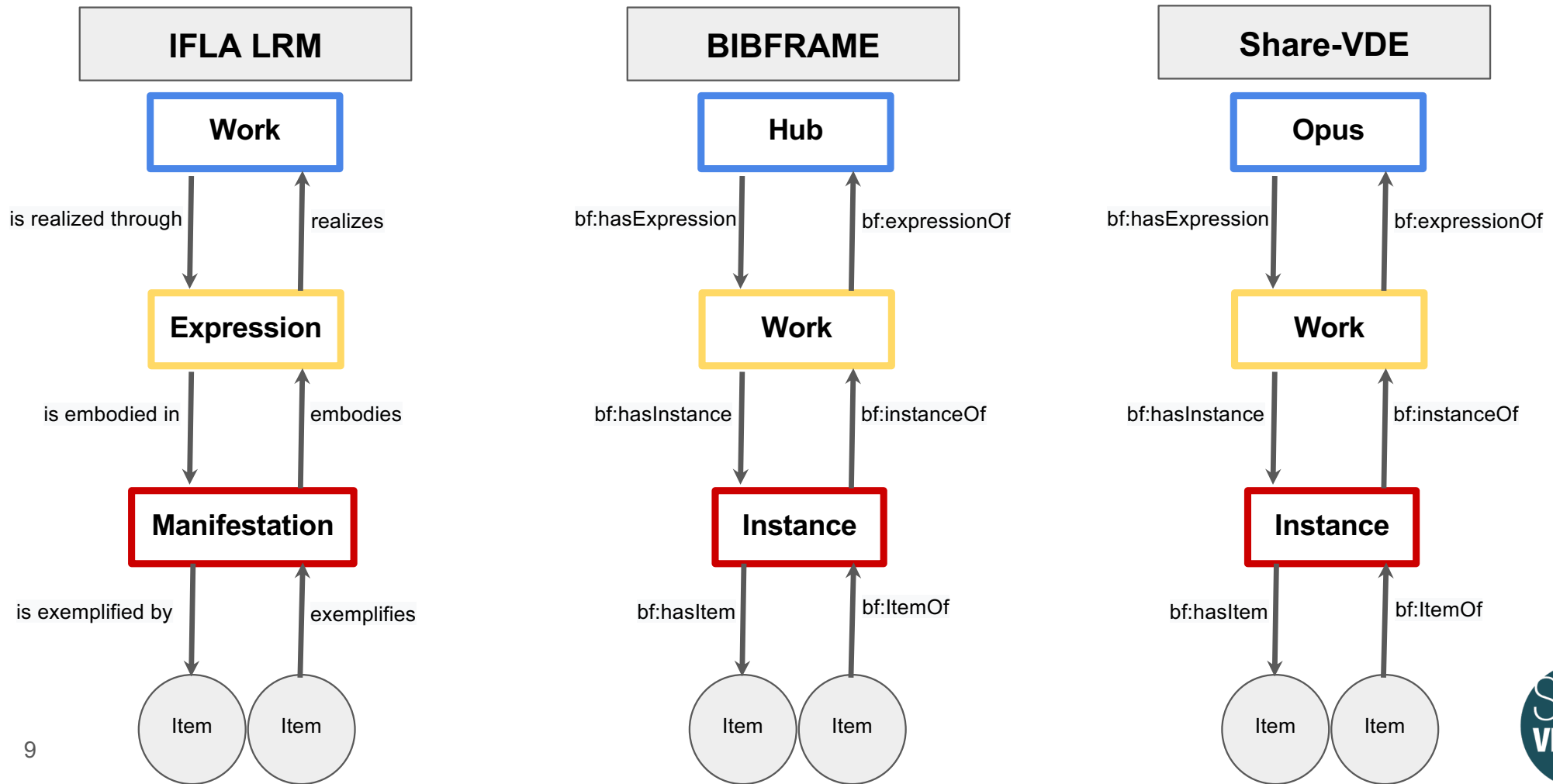
SVDE Advisory Council decision of June 10th 2020:

Resource that is a **svde:Opus** is also a **bf:Work** -- Likewise resource that is a **svde:Work** is also a **bf:Work**

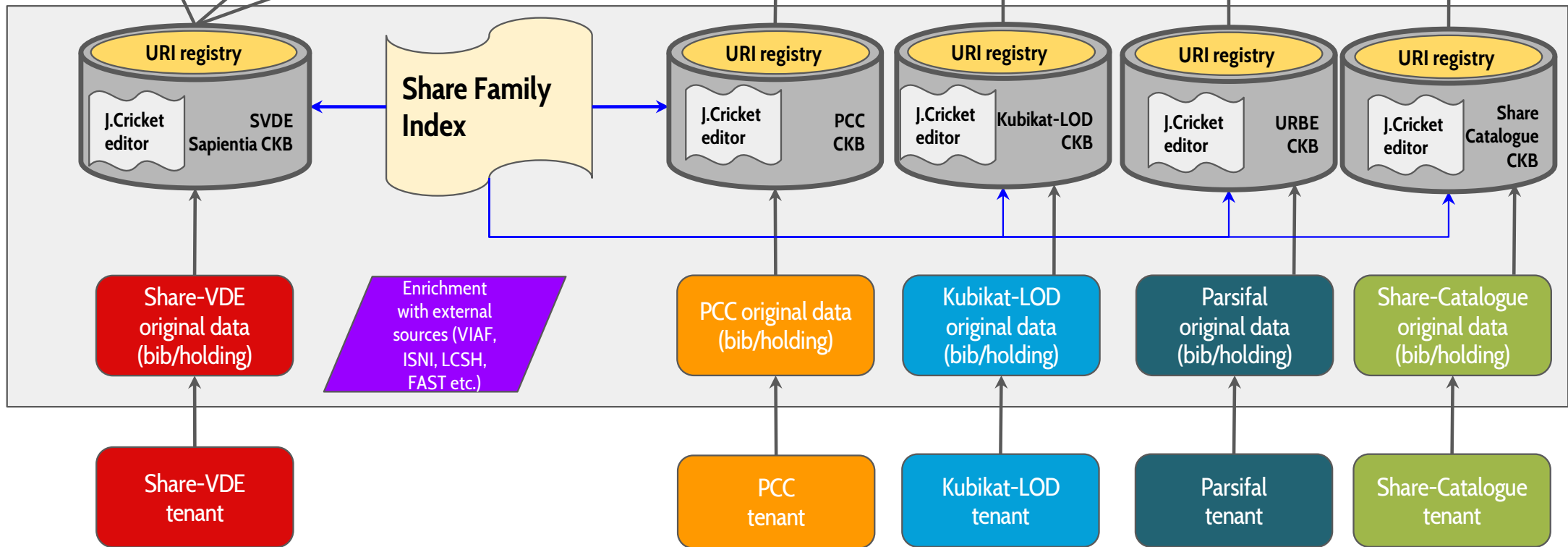
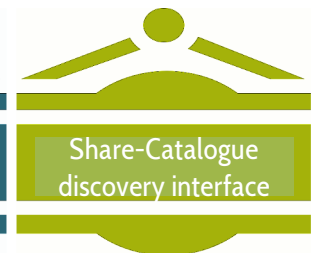
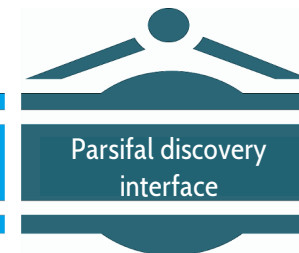
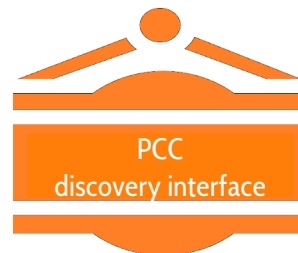
See the [SVDE entity model compared to BF and LRM](#) and an [example of application of the model](#)



# Comparison IFLA LRM/BIBFRAME/Share-VDE



## Common Share-VDE User Interface



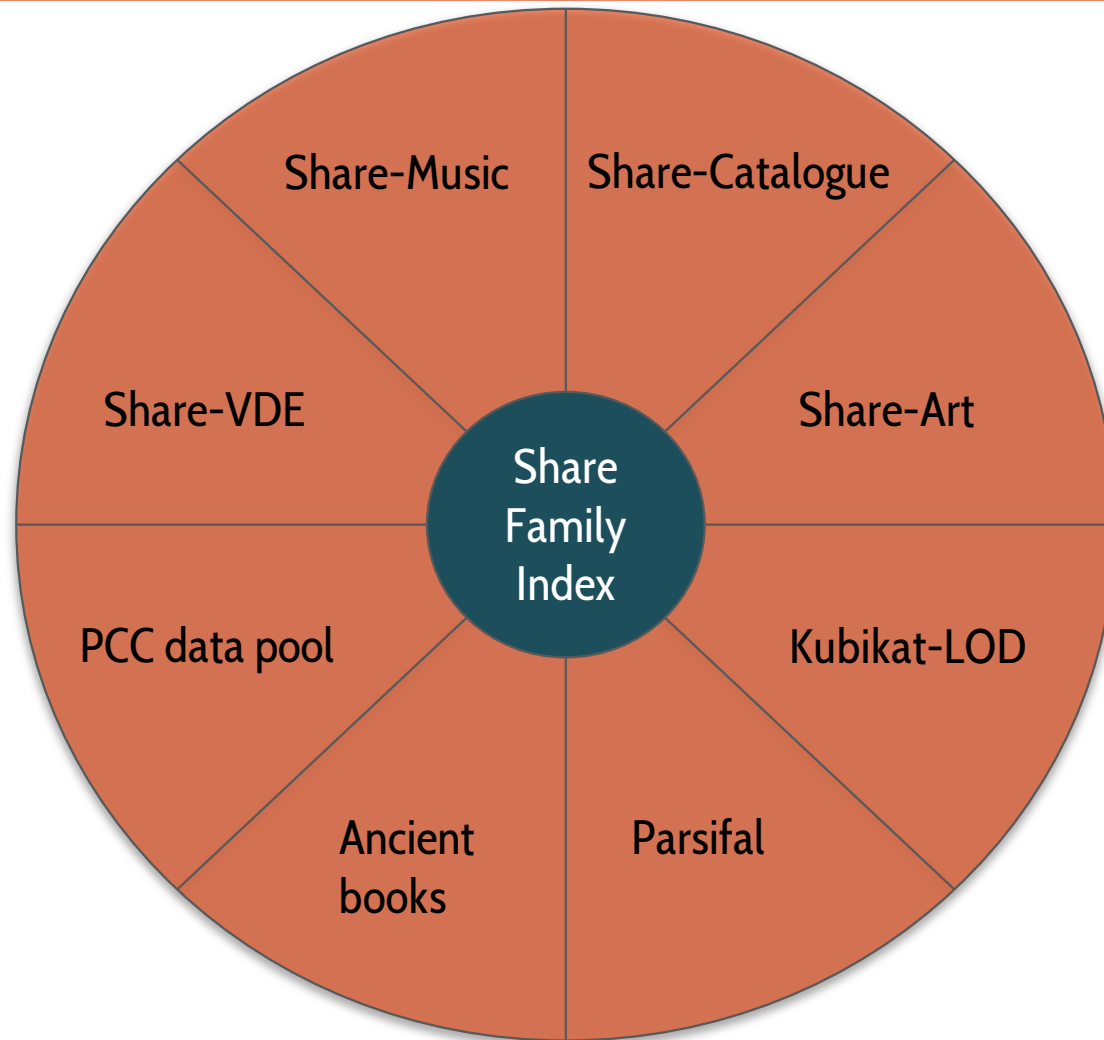
# Approach to tenant infrastructure

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- Each tenant has its own CKB (e.g. Share-VDE CKB, PCC CKB, Kubikat-LOD CKB etc.)
- Each entity has its own URI in the different CKB namespaces
  - E.g. Antonio Vivaldi URIs in different CKB namespaces [the following URIs are for simulation purposes]  
http://share-vde/agent/123456 sameAs  
https://svde.org/pcc/agent/7890123 sameAs  
http://kubikat/agent/456789 sameAs
- Central index able to point to all the URIs in all the CKBs of the different tenants: SFI - Share Family Index
  - sameAs relationships between URIs of entities in the various CKBs
  - the SFI ID (Share Family Index ID) can be the unique identifier aggregating URIs specific to each CKB, carrying the minimum amount of data needed to identify the object
- Having a “central ID” like the SFI ID that aggregates URIs for the same resource from different CKBs could facilitate a range of additional services across the projects of the various tenants
- Benefit of the SFI: maintain identity of individual project, but also cooperate and exchange with others

# Participation and autonomy in the Share Family

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# Community engagement: World Wide Web

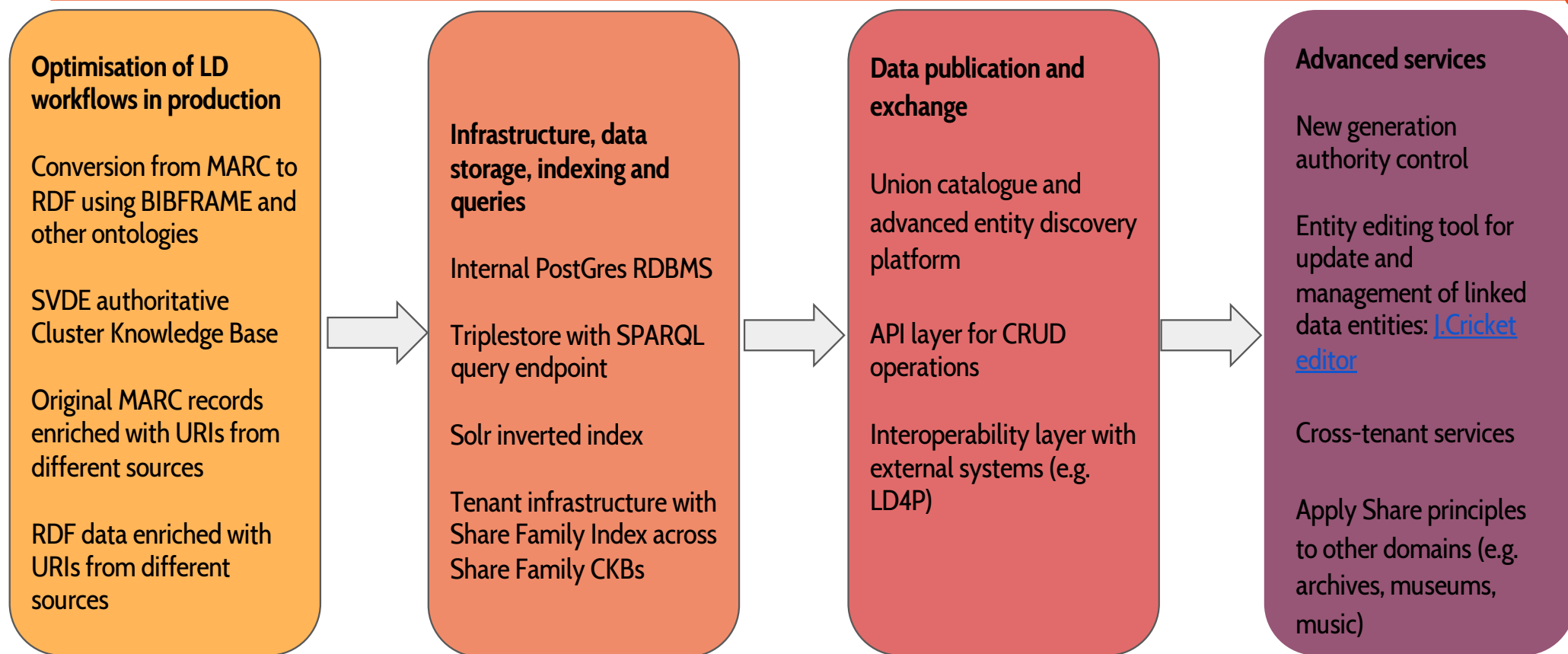


**Mixed community:** cross-domain cooperation across the Web community

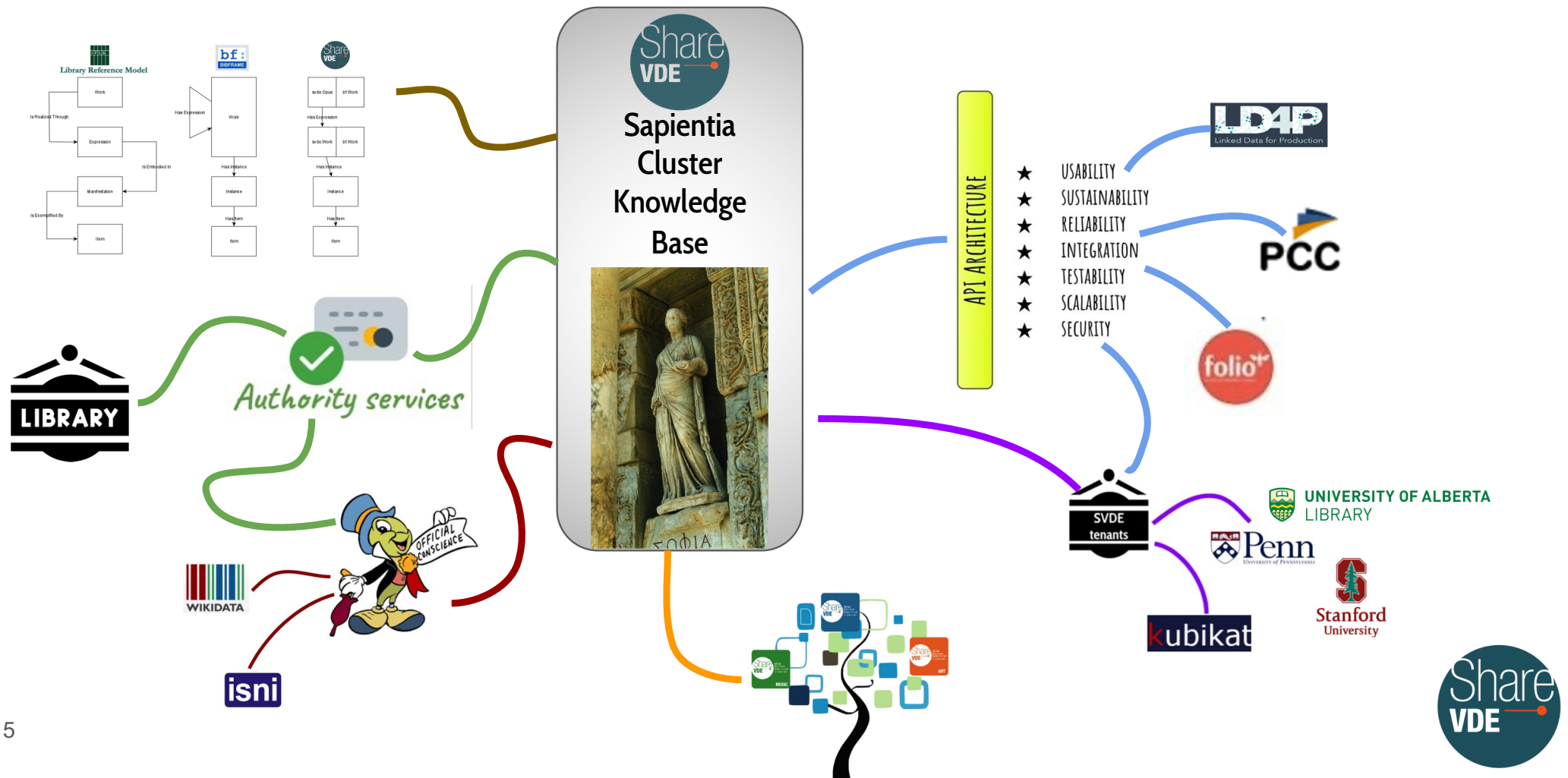
**Scientific value:** same solutions serve scopes of different communities, data reuse



# The evolution over time: towards SVDE 2.0



# SVDE Sapiientia CKB ecosystem



# Authority services: automatic processes

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For record environments:

- MARC record validator
- MARC corrections for errors and obsolete forms
- MARC matching/enrichment with SVDE and external profiled sources
- reporting of MARC records elaboration
- creation/update and delivery of Authority records to the library

For RDF environments:

- Access point enrichment (including Series and Subjects)
- Matching, import and interaction with the Sapiientia Cluster Knowledge Base  
(Enabled through the **LOD Platform**)



# Authority services: manual processes

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- Manual control for similar matches and for non matches
- Entity Work and Agents (including Publisher) access point management
- Integration with the **ISNI** registration processes

(Enabled through the **URI Registration Platform**)

- Cluster Knowledge Base entity management for Works and Agents

(Enabled through the **J. Cricket CKB Editor**)

# LD4P3 - SVDE closing the loop

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- first step done → **API pipeline** that pulls records from Sinopia to SVDE
  - implemented by Sinopia team and tested by SVDE
- now working on **interoperability of the data**
  - important: see how closely the PCC Data Pool RDF matches the RDF in Sinopia
  - SVDE entity model compatibility: svde:Opus and svde:Work are both a type of bf:Work
- exchanges ongoing: **technical meetings are in course**
  - demo of the current SVDE back-end search API has been done, and specs shared to give Sinopia/QA updates about what data will be available for queries and how
  - fine tune data exchange: the evolution of SVDE CKB 2.0 data structure has been shared, work in progress to define steps needed to close the loop



Thank you

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